



Ti-Coating News

Improving Productivity Through Coatings

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Ti-Coating Nomenclature	Composition	Nominal Thickness	Coating Characteristics
CVD (Chemical Vapor Deposition)			
TCN-9	TiC/TiCN/TiN GOLD	Target 9.0 μ	General purpose Titanium Nitride coating specifically designed for tool steel and high speed steel substrates. Excellent for metal forming and stamping.
TC-7	TiC GREY	Target 7.0 μ	High wear resistance in low heat applications. Excellent for forming stainless. Excellent for heavy stamping.
TI-4	TiN/TiC/TiCN/TiN GOLD	Target 4.0 μ	Excellent lubricity, good wear resistance. Works best in milling with very light hone. Excellent in cold heading and heavy extrusion on carbide tools.
TI-8	TiN/TiC/TiCN/TiN GOLD	Target 7.0 μ	Best for general purpose cutting with .001" min. hone. Works well in all low to medium heat applications and at low to medium speeds and feeds.
Al ₂ O ₃	TiC/Al ₂ O ₃ DARK GREY / BLACK	Target 9.0 μ	Excellent thermal protection, also non-conductive. Works best for cutting in high speed and feed applications, .001" min. hone.
TAN-15	TiC/Al ₂ O ₃ /TiN GOLD	Target 10.75 μ	Good lubricity. Excellent thermal protection with improved chip flow for high feed and speed applications, .001" min. hone.
TCN-2	TiCN COPPER	Target 3.0 μ	Good wear resistance and good lubricity. Good for tough cutting applications that are well cooled. Excellent for solid carbide cold heading and extrusion tools.
"Special Flash"	TiN GOLD	Approx. 1.0 μ	This is a Ti-Coating exclusive ultra-thin CVD TiN coating designed to replace PVD TiN on ceramic substrates. The finish is a high luster gold equal to or better than PVD TiN without the fixture mark or arcing problems.

Ti-Coating, Inc. reserves the right to alter coating thickness and layer specifications without notice. 3/12/02en